

10/063979

Amdt. Dated Jul. 26, 2004

Reply to Office Action of Apr. 26, 2004

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1 (Currently Amended). A golf ball comprising:

a core; and

a cover formed over the core, the cover composed of a thermosetting polyurethane material formed from reactants comprising at least one a polytetramethylene ether glycol terminated toluene diisocyanate polyurethane prepolymer with an isocyanate group content ranging from 3.75% to 7.0% and a curative blend consisting essentially of 4,4'-methylenebis-(2,6-diethyl)-aniline in an amount of 25 parts to 75 parts per 100 parts of the curative blend and a second curing agent in an amount of 25 parts to 75 parts per 100 parts of the curative blend;

wherein the cover has an aerodynamic surface geometry thereon.

2 (Original). The golf ball according to claim 1 further comprising at least one boundary layer disposed between the core and the cover.

3 (Canceled).

4 (Original). The golf ball according to claim 2 wherein the boundary layer is composed of a blend of ionomers.

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12 (New). The golf ball according to claim 9 wherein weight ratio of the polytetramethylene ether glycol terminated toluene diisocyanate polyurethane prepolymer to the curative blend is preferably in the range of about 10:1 to about 30:1.

13 (New). The golf ball according to claim 9 wherein the core comprises a polybutadiene material.

14 (New). The golf ball according to claim 9 wherein the boundary layer comprises a blend of ionomers.

15 (New). The golf ball according to claim 9 wherein the golf ball has a cover durability ranking ranging from 2.89 to 3.34.

16 (New). The golf ball according to claim 9 wherein the golf ball has a hardness ranging from 40 to 75.

17 (New). The golf ball according to claim 10 wherein the 4,4'-methylenebis-(2,6-diethyl)-aniline is present in an amount of 55 parts per one hundred parts of the curative blend and the N,N'-dialkylamino-diphenyl-methane is present in an amount 45 parts per one hundred parts of the curative blend.

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If the same MDEA is melted with Unilink 4200 at 175°F, the curative blend will stay as a homogenous mixture. Reacting the curative blend with the "low free" TDI-PTMEG prepolymer (6% NCO group content) will provide a gel time of 60 seconds to a golf ball cover with a 35-55 Shore D hardness. The overall solution temperature is lowered which slows the exothermic reaction thereby extending the time to react and providing a longer gel time (60 seconds) which is suitable for golf ball cover formation.

It is believed that the remaining claims are now allowable. The Applicants therefore respectfully solicit a Notice of Allowance.

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Respectfully submitted,

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